

Engineering Interpretations

Building Site Development

Soil properties influence development of building sites, including the selection of the site, the design of the structure, construction, post construction performance, and maintenance. Soil limitation ratings of slight, moderate, and severe are given for shallow excavations, dwellings with and without basements, small commercial buildings, local roads and streets, and lawns, landscaping, and golf fairways.

Shallow Excavations

Shallow excavations are trenches or holes dug in the soil to a maximum depth of 5 or 6 feet. They are used for pipelines, sewer lines, telephone and power transmission lines, basements, open ditches, and cemeteries. The ratings are based on the soil properties that influence ease of digging and resistance to sloughing.

Dwellings With or Without Basements

These are single-family houses of three stories or less. The foundation is assumed to be spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or the depth of maximum frost penetration, whichever is deeper, for houses without basements, or at a depth of 7 feet if a basement is constructed. The ratings are based on properties affecting soil strength and settlement under a load, and those that affect excavation and construction costs.

Small Commercial Buildings

Limitation ratings are given for the undisturbed soil on which small commercial buildings of less than three stories without basements are built. The foundation is assumed to be placed on spread footings of reinforced concrete at a depth of 2 feet or the depth of maximum frost penetration, whichever is deeper.

Local Roads and Streets

Limitation ratings are given for the use of soils for construction of improved local roads and streets that have all-weather surfacing, commonly of asphalt, gravel with binder in it, or concrete, and that are expected to carry automobile traffic all year. These roads and streets are graded to shed water, and conventional drainage measures are provided. With the probable exception of the hard surface, roads and streets are built mainly from the soil at hand.

Lawns, Landscaping, and Golf Fairways

The soils are rated for their use in establishing and maintaining turf for lawns and golf fairways and ornamental trees and shrubs for residential type landscaping. The ratings are based on the use of soil material at the location with some land smoothing. Irrigation may or may not be needed and is not a criterion in rating. Traps, trees, roughs, and greens are not considered as part of the golf fairway. The properties considered are those listed that affect plant growth and trafficability after vegetation is established.

This subsection includes:

- **(a) Building Site Development**

Caldwell County, Missouri: Detailed Soil Map Legend

Building Site Development

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AmB: Armster-----	Moderately limited ~shrink-swell (moderately limited) ~wetness (slightly limited)	0.45 0.01	Limited ~wetness (limited) ~shrink-swell (moderately limited)	0.61 0.45	Moderately limited ~shrink-swell (moderately limited) ~slope (slightly limited)	0.45 0.15	Very limited ~low strength (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Moderately limited ~too acid (moderately limited)	0.42
AmC: Armster-----	Moderately limited ~shrink-swell (moderately limited) ~slope (slightly limited) ~wetness (slightly limited)	0.45 0.15 0.01	Limited ~wetness (limited) ~shrink-swell (moderately limited) ~slope (slightly limited)	0.61 0.45 0.15	Limited ~slope (limited) ~shrink-swell (moderately limited)	0.83 0.45	Very limited ~low strength (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Moderately limited ~too acid (moderately limited)	0.42
AmC2: Armster-----	Moderately limited ~shrink-swell (moderately limited) ~slope (slightly limited) ~wetness (slightly limited)	0.45 0.15 0.01	Limited ~wetness (limited) ~shrink-swell (moderately limited) ~slope (slightly limited)	0.61 0.45 0.15	Limited ~slope (limited) ~shrink-swell (moderately limited)	0.83 0.45	Very limited ~low strength (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Moderately limited ~too acid (moderately limited)	0.42
AmD: Armster-----	Limited ~slope (limited) ~shrink-swell (moderately limited) ~wetness (slightly limited)	0.76 0.45 0.01	Limited ~slope (limited) ~wetness (limited) ~shrink-swell (moderately limited)	0.76 0.61 0.45	Very limited ~slope (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Very limited ~low strength (very limited) ~slope (limited) ~shrink-swell (moderately limited)	1.00 0.63 0.45	Limited ~slope (limited) ~too acid (moderately limited)	0.63 0.42

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AmD2: Armster-----	Limited ~slope (limited) ~shrink-swell (moderately limited) ~wetness (slightly limited)	0.76 0.45 0.01	Limited ~slope (limited) ~wetness (limited) ~shrink-swell (moderately limited)	0.76 0.61 0.45	Very limited ~slope (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Very limited ~low strength (very limited) ~slope (limited) ~shrink-swell (moderately limited)	1.00 0.63 0.45	Limited ~slope (limited) ~too acid (moderately limited)	0.63 0.42
AmE2: Armster-----	Very limited ~slope (very limited) ~shrink-swell (moderately limited) ~wetness (slightly limited)	1.00 0.45 0.01	Very limited ~slope (very limited) ~wetness (limited) ~shrink-swell (moderately limited)	1.00 0.61 0.45	Very limited ~slope (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Very limited ~low strength (very limited) ~slope (very limited) ~shrink-swell (moderately limited)	1.00 1.00 0.45	Very limited ~slope (very limited) ~too acid (moderately limited)	1.00 0.42
Arc3: Armster-----	Moderately limited ~shrink-swell (moderately limited) ~slope (slightly limited) ~wetness (slightly limited)	0.45 0.15 0.01	Limited ~wetness (limited) ~shrink-swell (moderately limited) ~slope (slightly limited)	0.61 0.45 0.15	Limited ~slope (limited) ~shrink-swell (moderately limited)	0.83 0.45	Very limited ~low strength (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Moderately limited ~too clayey (moderately limited) ~too acid (moderately limited)	0.60 0.42
ArD3: Armster-----	Limited ~slope (limited) ~shrink-swell (moderately limited) ~wetness (slightly limited)	0.76 0.45 0.01	Limited ~slope (limited) ~wetness (limited) ~shrink-swell (moderately limited)	0.76 0.61 0.45	Very limited ~slope (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Very limited ~low strength (very limited) ~slope (limited) ~shrink-swell (moderately limited)	1.00 0.63 0.45	Limited ~slope (limited) ~too clayey (moderately limited) ~too acid (moderately limited)	0.63 0.60 0.42

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Bk: Blackoar-----	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited) ~low strength (very limited)	1.00	Very limited ~wetness (very limited)	1.00
Co: Colo-----	Very limited ~wetness (very limited) ~flooding (very limited) ~shrink-swell (moderately limited)	1.00 1.00 0.45	Very limited ~flooding (very limited) ~wetness (very limited) ~shrink-swell (limited)	1.00 1.00 0.75	Very limited ~flooding (very limited) ~wetness (very limited) ~shrink-swell (moderately limited)	1.00 1.00 0.45	Very limited ~low strength (very limited) ~wetness (very limited) ~flooding (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~flooding (moderately limited)	1.00 0.60
GnB: Greenton-----	Very limited ~shrink-swell (very limited) ~wetness (limited)	1.00 0.79	Very limited ~wetness (very limited) ~shrink-swell (very limited)	1.00 1.00	Very limited ~shrink-swell (very limited) ~wetness (moderately limited) ~slope (slightly limited)	1.00 0.45 0.15	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (moderately limited)	1.00 1.00 0.45	Moderately limited ~wetness (moderately limited)	0.45
GrC2: Greenton-----	Very limited ~shrink-swell (very limited) ~wetness (limited) ~slope (slightly limited)	1.00 0.79 0.15	Very limited ~wetness (very limited) ~shrink-swell (very limited) ~slope (slightly limited)	1.00 1.00 0.15	Very limited ~shrink-swell (very limited) ~slope (limited) ~wetness (moderately limited)	1.00 0.83 0.45	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (moderately limited)	1.00 1.00 0.45	Moderately limited ~too clayey (moderately limited) ~wetness (moderately limited)	0.60 0.45

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
GrD2: Greenton-----	Very limited ~shrink-swell (very limited) ~wetness (limited) ~slope (limited)	1.00 0.79 0.76	Very limited ~wetness (very limited) ~shrink-swell (very limited) ~slope (limited)	1.00 1.00 0.76	Very limited ~slope (very limited) ~shrink-swell (very limited) ~wetness (moderately limited)	1.00 1.00 0.45	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~slope (limited)	1.00 1.00 0.63	Limited ~slope (limited) ~too clayey (moderately limited) ~wetness (moderately limited)	0.63 0.60 0.45
GrD3: Greenton-----	Very limited ~shrink-swell (very limited) ~wetness (limited) ~slope (limited)	1.00 0.79 0.76	Very limited ~wetness (very limited) ~shrink-swell (very limited) ~slope (limited)	1.00 1.00 0.76	Very limited ~slope (very limited) ~shrink-swell (very limited) ~wetness (moderately limited)	1.00 1.00 0.45	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~slope (limited)	1.00 1.00 0.63	Limited ~slope (limited) ~too clayey (moderately limited) ~wetness (moderately limited)	0.63 0.60 0.45
GsA: Grundy-----	Very limited ~shrink-swell (very limited) ~wetness (limited)	1.00 0.79	Very limited ~wetness (very limited) ~shrink-swell (very limited)	1.00 1.00	Very limited ~shrink-swell (very limited) ~wetness (moderately limited)	1.00 0.45	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (moderately limited)	1.00 1.00 0.45	Moderately limited ~wetness (moderately limited)	0.45
GsB: Grundy-----	Very limited ~shrink-swell (very limited) ~wetness (limited)	1.00 0.79	Very limited ~wetness (very limited) ~shrink-swell (very limited)	1.00 1.00	Very limited ~shrink-swell (very limited) ~wetness (moderately limited) ~slope (slightly limited)	1.00 0.45 0.15	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (moderately limited)	1.00 1.00 0.45	Moderately limited ~wetness (moderately limited)	0.45

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
GuB2: Grundy-----	Very limited ~shrink-swell (very limited) ~wetness (limited)	1.00 0.79	Very limited ~wetness (very limited) ~shrink-swell (very limited)	1.00 1.00	Very limited ~shrink-swell (very limited) ~wetness (moderately limited) ~slope (slightly limited)	1.00 0.45 0.15	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (moderately limited)	1.00 1.00 0.45	Moderately limited ~too clayey (moderately limited) ~wetness (moderately limited)	0.60 0.45
GuC2: Grundy-----	Very limited ~shrink-swell (very limited) ~wetness (limited) ~slope (slightly limited)	1.00 0.79 0.15	Very limited ~wetness (very limited) ~shrink-swell (very limited) ~slope (slightly limited)	1.00 1.00 0.15	Very limited ~shrink-swell (very limited) ~slope (limited) ~wetness (moderately limited)	1.00 0.83 0.45	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (moderately limited)	1.00 1.00 0.45	Moderately limited ~too clayey (moderately limited) ~wetness (moderately limited)	0.60 0.45
Ke: Kennebec-----	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited) ~wetness (slightly limited)	1.00 0.15	Very limited ~flooding (very limited)	1.00	Very limited ~low strength (very limited) ~flooding (rare) (limited)	1.00 0.90	Not limited	
LaB: Ladoga-----	Moderately limited ~shrink-swell (moderately limited)	0.45	Slightly limited ~shrink-swell (slightly limited) ~wetness (slightly limited)	0.20 0.15	Moderately limited ~shrink-swell (moderately limited) ~slope (slightly limited)	0.45 0.15	Very limited ~low strength (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Not limited	

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LaC2: Ladoga-----	Moderately limited ~shrink-swell (moderately limited) ~slope (slightly limited)	0.45 0.15	Slightly limited ~shrink-swell (slightly limited) ~slope (slightly limited) ~wetness (slightly limited)	0.20 0.15 0.15	Limited ~slope (limited) ~shrink-swell (moderately limited)	0.83 0.45	Very limited ~low strength (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Not limited	
LaD2: Ladoga-----	Limited ~slope (limited) ~shrink-swell (moderately limited)	0.76 0.45	Limited ~slope (limited) ~shrink-swell (slightly limited) ~wetness (slightly limited)	0.76 0.20 0.15	Very limited ~slope (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Very limited ~low strength (very limited) ~slope (limited) ~shrink-swell (moderately limited)	1.00 0.63 0.45	Limited ~slope (limited)	0.63
LaE: Ladoga-----	Very limited ~slope (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Very limited ~slope (very limited) ~shrink-swell (slightly limited) ~wetness (slightly limited)	1.00 0.20 0.15	Very limited ~slope (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Very limited ~low strength (very limited) ~slope (very limited) ~shrink-swell (moderately limited)	1.00 1.00 0.45	Very limited ~slope (very limited)	1.00
LdB: Lagonda-----	Very limited ~shrink-swell (very limited) ~wetness (moderately limited)	1.00 0.51	Very limited ~wetness (very limited) ~shrink-swell (very limited)	1.00 1.00	Very limited ~shrink-swell (very limited) ~slope (slightly limited) ~wetness (slightly limited)	1.00 0.15 0.13	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (slightly limited)	1.00 1.00 0.13	Slightly limited ~wetness (slightly limited)	0.13

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LdB2: Lagonda-----	Moderately limited ~wetness (moderately limited) ~shrink-swell (moderately limited)	0.51 0.45	Very limited ~wetness (very limited) ~shrink-swell (limited)	1.00 0.99	Moderately limited ~shrink-swell (moderately limited) ~slope (slightly limited) ~wetness (slightly limited)	0.45 0.15 0.13	Not Rated Not Rated ~shrink-swell (moderately limited) ~wetness (slightly limited)	 0.45 0.13	Slightly limited ~wetness (slightly limited)	0.13
LdC: Lagonda-----	Very limited ~shrink-swell (very limited) ~wetness (moderately limited) ~slope (slightly limited)	1.00 0.51 0.15	Very limited ~wetness (very limited) ~shrink-swell (very limited) ~slope (slightly limited)	1.00 1.00 0.15	Very limited ~shrink-swell (very limited) ~slope (limited) ~wetness (slightly limited)	1.00 0.83 0.13	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (slightly limited)	1.00 1.00 0.13	Slightly limited ~wetness (slightly limited)	0.13
LgC2: Lagonda-----	Moderately limited ~wetness (moderately limited) ~shrink-swell (moderately limited) ~slope (slightly limited)	0.51 0.45 0.15	Very limited ~wetness (very limited) ~shrink-swell (limited) ~slope (slightly limited)	1.00 0.99 0.15	Limited ~slope (limited) ~shrink-swell (moderately limited) ~wetness (slightly limited)	0.83 0.45 0.13	Very limited ~low strength (very limited) ~shrink-swell (moderately limited) ~wetness (slightly limited)	1.00 0.45 0.13	Moderately limited ~too clayey (moderately limited) ~wetness (slightly limited)	0.30 0.13
LgC3: Lagonda-----	Moderately limited ~wetness (moderately limited) ~shrink-swell (moderately limited) ~slope (slightly limited)	0.51 0.45 0.15	Very limited ~wetness (very limited) ~shrink-swell (limited) ~slope (slightly limited)	1.00 0.99 0.15	Limited ~slope (limited) ~shrink-swell (moderately limited) ~wetness (slightly limited)	0.83 0.45 0.13	Very limited ~low strength (very limited) ~shrink-swell (moderately limited) ~wetness (slightly limited)	1.00 0.45 0.13	Moderately limited ~too clayey (moderately limited) ~wetness (slightly limited)	0.30 0.13

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LmB:										
Adair-----	Moderately limited ~wetness (moderately limited)	0.59	Very limited ~wetness (very limited)	1.00	Moderately limited ~shrink-swell (moderately limited)	0.45	Very limited ~low strength (very limited)	1.00	Moderately limited ~too acid (moderately limited)	0.42
	~shrink-swell (moderately limited)	0.45	~shrink-swell (moderately limited)	0.36	~wetness (slightly limited)	0.28	~shrink-swell (moderately limited)	0.45	~wetness (slightly limited)	0.28
					~slope (slightly limited)	0.15	~wetness (slightly limited)	0.28		
Lamoni-----	Very limited ~shrink-swell (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~shrink-swell (very limited)	1.00	Very limited ~low strength (very limited)	1.00	Moderately limited ~too clayey (moderately limited)	0.60
	~wetness (moderately limited)	0.59	~shrink-swell (very limited)	1.00	~wetness (slightly limited)	0.28	~shrink-swell (very limited)	1.00	~wetness (slightly limited)	0.28
					~slope (slightly limited)	0.15	~wetness (slightly limited)	0.28		
LmB2:										
Adair-----	Moderately limited ~wetness (moderately limited)	0.59	Very limited ~wetness (very limited)	1.00	Moderately limited ~shrink-swell (moderately limited)	0.45	Very limited ~low strength (very limited)	1.00	Moderately limited ~too acid (moderately limited)	0.42
	~shrink-swell (moderately limited)	0.45	~shrink-swell (moderately limited)	0.45	~wetness (slightly limited)	0.28	~shrink-swell (moderately limited)	0.45	~wetness (slightly limited)	0.28
					~slope (slightly limited)	0.15	~wetness (slightly limited)	0.28		
Lamoni-----	Very limited ~shrink-swell (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~shrink-swell (very limited)	1.00	Very limited ~low strength (very limited)	1.00	Moderately limited ~too clayey (moderately limited)	0.60
	~wetness (moderately limited)	0.59	~shrink-swell (very limited)	1.00	~wetness (slightly limited)	0.28	~shrink-swell (very limited)	1.00	~wetness (slightly limited)	0.28
					~slope (slightly limited)	0.15	~wetness (slightly limited)	0.28		

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LmC:										
Adair-----	Moderately limited		Very limited		Limited		Very limited		Moderately limited	
	~wetness	0.59	~wetness	1.00	~slope	0.83	~low strength	1.00	~too acid	0.42
	(moderately limited)		(very limited)		(limited)		(very limited)		(moderately limited)	
	~shrink-swell	0.45	~shrink-swell	0.36	~shrink-swell	0.45	~shrink-swell	0.45	~wetness	0.28
	(moderately limited)		(moderately limited)		(moderately limited)		(moderately limited)		(slightly limited)	
	~slope	0.15	~slope	0.15	~wetness	0.28	~wetness	0.28		
	(slightly limited)		(slightly limited)		(slightly limited)		(slightly limited)			
Lamoni-----	Very limited		Very limited		Very limited		Very limited		Moderately limited	
	~shrink-swell	1.00	~wetness	1.00	~shrink-swell	1.00	~low strength	1.00	~too clayey	0.60
	(very limited)		(very limited)		(very limited)		(very limited)		(moderately limited)	
	~wetness	0.59	~shrink-swell	1.00	~slope	0.83	~shrink-swell	1.00	~wetness	0.28
	(moderately limited)		(very limited)		(limited)		(very limited)		(slightly limited)	
	~slope	0.15	~slope	0.15	~wetness	0.28	~wetness	0.28		
	(slightly limited)		(slightly limited)		(slightly limited)		(slightly limited)			
LmC2:										
Adair-----	Moderately limited		Very limited		Limited		Very limited		Moderately limited	
	~wetness	0.59	~wetness	1.00	~slope	0.83	~low strength	1.00	~too acid	0.42
	(moderately limited)		(very limited)		(limited)		(very limited)		(moderately limited)	
	~shrink-swell	0.45	~shrink-swell	0.45	~shrink-swell	0.45	~shrink-swell	0.45	~wetness	0.28
	(moderately limited)		(moderately limited)		(moderately limited)		(moderately limited)		(slightly limited)	
	~slope	0.15	~slope	0.15	~wetness	0.28	~wetness	0.28		
	(slightly limited)		(slightly limited)		(slightly limited)		(slightly limited)			
Lamoni-----	Very limited		Very limited		Very limited		Very limited		Moderately limited	
	~shrink-swell	1.00	~wetness	1.00	~shrink-swell	1.00	~low strength	1.00	~too clayey	0.60
	(very limited)		(very limited)		(very limited)		(very limited)		(moderately limited)	
	~wetness	0.59	~shrink-swell	1.00	~slope	0.83	~shrink-swell	1.00	~wetness	0.28
	(moderately limited)		(very limited)		(limited)		(very limited)		(slightly limited)	
	~slope	0.15	~slope	0.15	~wetness	0.28	~wetness	0.28		
	(slightly limited)		(slightly limited)		(slightly limited)		(slightly limited)			

Caldwell County, Missouri: Detailed Soil Map Legend

Building Site Development

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LmC3: Adair-----	Moderately limited ~wetness (moderately limited) ~shrink-swell (moderately limited) ~slope (slightly limited)	0.59 0.45 0.15	Very limited ~wetness (very limited) ~shrink-swell (moderately limited) ~slope (slightly limited)	1.00 0.45 0.15	Limited ~slope (limited) ~shrink-swell (moderately limited) ~wetness (slightly limited)	0.83 0.45 0.28	Very limited ~low strength (very limited) ~shrink-swell (moderately limited) ~wetness (slightly limited)	1.00 0.45 0.28	Moderately limited ~too acid (moderately limited) ~wetness (slightly limited)	0.42 0.28
Lamoni-----	Very limited ~shrink-swell (very limited) ~wetness (moderately limited) ~slope (slightly limited)	1.00 0.59 0.15	Very limited ~wetness (very limited) ~shrink-swell (very limited) ~slope (slightly limited)	1.00 1.00 0.15	Very limited ~shrink-swell (very limited) ~slope (limited) ~wetness (slightly limited)	1.00 0.83 0.28	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (slightly limited)	1.00 1.00 0.28	Moderately limited ~too clayey (moderately limited) ~wetness (slightly limited)	0.60 0.28
LmD: Adair-----	Limited ~slope (limited) ~wetness (moderately limited) ~shrink-swell (moderately limited)	0.76 0.59 0.45	Very limited ~wetness (very limited) ~slope (limited) ~shrink-swell (moderately limited)	1.00 0.76 0.36	Very limited ~slope (very limited) ~shrink-swell (moderately limited) ~wetness (slightly limited)	1.00 0.45 0.28	Very limited ~low strength (very limited) ~slope (limited) ~shrink-swell (moderately limited)	1.00 0.63 0.45	Limited ~slope (limited) ~too acid (moderately limited) ~wetness (slightly limited)	0.63 0.42 0.28
Lamoni-----	Very limited ~shrink-swell (very limited) ~slope (limited) ~wetness (moderately limited)	1.00 0.76 0.59	Very limited ~wetness (very limited) ~shrink-swell (very limited) ~slope (limited)	1.00 1.00 0.76	Very limited ~slope (very limited) ~shrink-swell (very limited) ~wetness (slightly limited)	1.00 1.00 0.28	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~slope (limited)	1.00 1.00 0.63	Limited ~slope (limited) ~too clayey (moderately limited) ~wetness (slightly limited)	0.63 0.60 0.28

Caldwell County, Missouri: Detailed Soil Map Legend

Building Site Development

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LmD2: Adair-----	Limited ~slope (limited) ~wetness (moderately limited) ~shrink-swell (moderately limited)	0.76 0.59 0.45	Very limited ~wetness (very limited) ~slope (limited) ~shrink-swell (moderately limited)	1.00 0.76 0.45	Very limited ~slope (very limited) ~shrink-swell (moderately limited) ~wetness (slightly limited)	1.00 0.45 0.28	Very limited ~low strength (very limited) ~slope (limited) ~shrink-swell (moderately limited)	1.00 0.63 0.45	Limited ~slope (limited) ~too acid (moderately limited) ~wetness (slightly limited)	0.63 0.42 0.28
Lamoni-----	Very limited ~shrink-swell (very limited) ~slope (limited) ~wetness (moderately limited)	1.00 0.76 0.59	Very limited ~wetness (very limited) ~shrink-swell (very limited) ~slope (limited)	1.00 1.00 0.76	Very limited ~slope (very limited) ~shrink-swell (very limited) ~wetness (slightly limited)	1.00 1.00 0.28	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~slope (limited)	1.00 1.00 0.63	Limited ~slope (limited) ~too clayey (moderately limited) ~wetness (slightly limited)	0.63 0.60 0.28
LmD3: Adair-----	Limited ~slope (limited) ~wetness (moderately limited) ~shrink-swell (moderately limited)	0.76 0.59 0.45	Very limited ~wetness (very limited) ~slope (limited) ~shrink-swell (moderately limited)	1.00 0.76 0.45	Very limited ~slope (very limited) ~shrink-swell (moderately limited) ~wetness (slightly limited)	1.00 0.45 0.28	Very limited ~low strength (very limited) ~slope (limited) ~shrink-swell (moderately limited)	1.00 0.63 0.45	Limited ~slope (limited) ~too clayey (moderately limited) ~too acid (moderately limited)	0.63 0.60 0.42
Lamoni-----	Very limited ~shrink-swell (very limited) ~slope (limited) ~wetness (moderately limited)	1.00 0.76 0.59	Very limited ~wetness (very limited) ~shrink-swell (very limited) ~slope (limited)	1.00 1.00 0.76	Very limited ~slope (very limited) ~shrink-swell (very limited) ~wetness (slightly limited)	1.00 1.00 0.28	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~slope (limited)	1.00 1.00 0.63	Limited ~slope (limited) ~too clayey (moderately limited) ~wetness (slightly limited)	0.63 0.60 0.28

Caldwell County, Missouri: Detailed Soil Map Legend

Building Site Development

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LnB: Lineville-----	Moderately limited ~wetness (moderately limited) ~shrink-swell (moderately limited)	0.59 0.45	Very limited ~wetness (very limited) ~shrink-swell (limited)	1.00 0.92	Moderately limited ~shrink-swell (moderately limited) ~wetness (slightly limited) ~slope (slightly limited)	0.45 0.28 0.15	Very limited ~low strength (very limited) ~shrink-swell (moderately limited) ~wetness (slightly limited)	1.00 0.45 0.28	Slightly limited ~wetness (slightly limited)	0.28
LnB2: Lineville-----	Moderately limited ~wetness (moderately limited) ~shrink-swell (moderately limited)	0.59 0.45	Very limited ~wetness (very limited) ~shrink-swell (limited)	1.00 0.93	Moderately limited ~shrink-swell (moderately limited) ~wetness (slightly limited) ~slope (slightly limited)	0.45 0.28 0.15	Very limited ~low strength (very limited) ~shrink-swell (moderately limited) ~wetness (slightly limited)	1.00 0.45 0.28	Slightly limited ~wetness (slightly limited)	0.28
LnC: Lineville-----	Moderately limited ~wetness (moderately limited) ~shrink-swell (moderately limited) ~slope (slightly limited)	0.59 0.45 0.15	Very limited ~wetness (very limited) ~shrink-swell (limited) ~slope (slightly limited)	1.00 0.92 0.15	Limited ~slope (limited) ~shrink-swell (moderately limited) ~wetness (slightly limited)	0.83 0.45 0.28	Very limited ~low strength (very limited) ~shrink-swell (moderately limited) ~wetness (slightly limited)	1.00 0.45 0.28	Slightly limited ~wetness (slightly limited)	0.28
LnC2: Lineville-----	Moderately limited ~wetness (moderately limited) ~shrink-swell (moderately limited) ~slope (slightly limited)	0.59 0.45 0.15	Very limited ~wetness (very limited) ~shrink-swell (limited) ~slope (slightly limited)	1.00 0.93 0.15	Limited ~slope (limited) ~shrink-swell (moderately limited) ~wetness (slightly limited)	0.83 0.45 0.28	Very limited ~low strength (very limited) ~shrink-swell (moderately limited) ~wetness (slightly limited)	1.00 0.45 0.28	Slightly limited ~wetness (slightly limited)	0.28

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LvC3: Lineville-----	Moderately limited ~wetness (moderately limited)	0.59	Very limited ~wetness (very limited)	1.00	Limited ~slope (limited)	0.83	Very limited ~low strength (very limited)	1.00	Moderately limited ~too clayey (moderately limited)	0.60
	~shrink-swell (moderately limited)	0.45	~shrink-swell (limited)	0.93	~shrink-swell (moderately limited)	0.45	~shrink-swell (moderately limited)	0.45	~wetness (slightly limited)	0.28
	~slope (slightly limited)	0.15	~slope (slightly limited)	0.15	~wetness (slightly limited)	0.28	~wetness (slightly limited)	0.28		
MoA: Moniteau-----	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~low strength (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~shrink-swell (moderately limited)	0.45	~shrink-swell (slightly limited)	0.15	~shrink-swell (moderately limited)	0.45	~wetness (very limited)	1.00	~too acid (slightly limited)	0.12
							~shrink-swell (moderately limited)	0.45		
NeA: Nevin-----	Limited ~wetness (limited)	0.99	Very limited ~wetness (very limited)	1.00	Limited ~wetness (limited)	0.60	Very limited ~low strength (very limited)	1.00	Limited ~wetness (limited)	0.60
	~shrink-swell (moderately limited)	0.45	~shrink-swell (slightly limited)	0.20	~shrink-swell (moderately limited)	0.45	~wetness (limited)	0.60	~too acid (slightly limited)	0.30
							~shrink-swell (moderately limited)	0.45		
PoB: Polo-----	Moderately limited ~shrink-swell (moderately limited)	0.45	Moderately limited ~shrink-swell (moderately limited)	0.45	Moderately limited ~shrink-swell (moderately limited)	0.45	Very limited ~low strength (very limited)	1.00	Not limited	
					~slope (slightly limited)	0.15	~shrink-swell (moderately limited)	0.45		

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
PoC: Polo-----	Moderately limited ~shrink-swell (moderately limited) ~slope (slightly limited)	0.45 0.15	Moderately limited ~shrink-swell (moderately limited) ~slope (slightly limited)	0.45 0.15	Limited ~slope (limited) ~shrink-swell (moderately limited)	0.83 0.45	Very limited ~low strength (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Not limited	
PoC2: Polo-----	Moderately limited ~shrink-swell (moderately limited) ~slope (slightly limited)	0.45 0.15	Moderately limited ~shrink-swell (moderately limited) ~slope (slightly limited)	0.45 0.15	Limited ~slope (limited) ~shrink-swell (moderately limited)	0.83 0.45	Very limited ~low strength (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Not limited	
PoD2: Polo-----	Limited ~slope (limited) ~shrink-swell (moderately limited)	0.76 0.45	Limited ~slope (limited) ~shrink-swell (moderately limited)	0.76 0.45	Very limited ~slope (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Very limited ~low strength (very limited) ~slope (limited) ~shrink-swell (moderately limited)	1.00 0.63 0.45	Limited ~slope (limited)	0.63
Qu: Quarry-----	Not rated		Not rated		Not rated		Not rated		Not rated	
Ro: Rock land-----	Not rated		Not rated		Not rated		Not rated		Not rated	

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SaB: Sampsel-----	Very limited ~shrink-swell (very limited) ~wetness (very limited)	1.00 1.00	Very limited ~wetness (very limited) ~shrink-swell (very limited)	1.00 1.00	Very limited ~shrink-swell (very limited) ~wetness (very limited) ~slope (slightly limited)	1.00 1.00 0.15	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~too clayey (moderately limited)	1.00 0.60
SaB2: Sampsel-----	Very limited ~shrink-swell (very limited) ~wetness (very limited)	1.00 1.00	Very limited ~wetness (very limited) ~shrink-swell (very limited)	1.00 1.00	Very limited ~shrink-swell (very limited) ~wetness (very limited) ~slope (slightly limited)	1.00 1.00 0.15	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~too clayey (moderately limited)	1.00 0.60
SaC: Sampsel-----	Very limited ~shrink-swell (very limited) ~wetness (very limited) ~slope (slightly limited)	1.00 1.00 0.15	Very limited ~wetness (very limited) ~shrink-swell (very limited) ~slope (slightly limited)	1.00 1.00 0.15	Very limited ~shrink-swell (very limited) ~wetness (very limited) ~slope (limited)	1.00 1.00 0.83	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~too clayey (moderately limited)	1.00 0.60
SaC2: Sampsel-----	Very limited ~shrink-swell (very limited) ~wetness (very limited) ~slope (slightly limited)	1.00 1.00 0.15	Very limited ~wetness (very limited) ~shrink-swell (very limited) ~slope (slightly limited)	1.00 1.00 0.15	Very limited ~shrink-swell (very limited) ~wetness (very limited) ~slope (limited)	1.00 1.00 0.83	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~too clayey (moderately limited)	1.00 0.60

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SaC3: Sampsel-----	Very limited ~shrink-swell (very limited) ~wetness (very limited) ~slope (slightly limited)	1.00 1.00 0.15	Very limited ~wetness (very limited) ~shrink-swell (very limited) ~slope (slightly limited)	1.00 1.00 0.15	Very limited ~shrink-swell (very limited) ~wetness (very limited) ~slope (limited)	1.00 1.00 0.83	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~too clayey (moderately limited)	1.00 0.60
SaD2: Sampsel-----	Very limited ~shrink-swell (very limited) ~wetness (very limited) ~slope (limited)	1.00 1.00 0.76	Very limited ~wetness (very limited) ~shrink-swell (very limited) ~slope (limited)	1.00 1.00 0.76	Very limited ~slope (very limited) ~shrink-swell (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~slope (limited) ~too clayey (moderately limited)	1.00 0.63 0.60
SnC: Snead-----	Moderately limited ~shrink-swell (moderately limited) ~wetness (moderately limited) ~slope (slightly limited)	0.45 0.45 0.15	Very limited ~wetness (very limited) ~soft bedrock <20" (very limited) ~shrink-swell (moderately limited)	1.00 1.00 0.45	Limited ~slope (limited) ~shrink-swell (moderately limited)	0.83 0.45	Very limited ~low strength (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Limited ~depth to bedrock (limited) ~too clayey (moderately limited) ~droughty (slightly limited)	0.99 0.60 0.24
SnD: Snead-----	Limited ~slope (limited) ~shrink-swell (moderately limited) ~wetness (moderately limited)	0.76 0.45 0.45	Very limited ~wetness (very limited) ~soft bedrock <20" (very limited) ~slope (limited)	1.00 1.00 0.76	Very limited ~slope (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Very limited ~low strength (very limited) ~slope (limited) ~shrink-swell (moderately limited)	1.00 0.63 0.45	Limited ~depth to bedrock (limited) ~slope (limited) ~too clayey (moderately limited)	0.99 0.63 0.60

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SnD2: Snead-----	Limited ~slope (limited) ~shrink-swell (moderately limited) ~wetness (moderately limited)	0.76 0.45 0.45	Very limited ~wetness (very limited) ~soft bedrock <20" (very limited) ~slope (limited)	1.00 1.00 0.76	Very limited ~slope (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Very limited ~low strength (very limited) ~slope (limited) ~shrink-swell (moderately limited)	1.00 0.63 0.45	Limited ~depth to bedrock (limited) ~slope (limited) ~too clayey (moderately limited)	0.99 0.63 0.60
SnE: Snead-----	Very limited ~slope (very limited) ~shrink-swell (moderately limited) ~wetness (moderately limited)	1.00 0.45 0.45	Very limited ~slope (very limited) ~wetness (very limited) ~soft bedrock <20" (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~shrink-swell (moderately limited)	1.00 0.45	Very limited ~low strength (very limited) ~slope (very limited) ~shrink-swell (moderately limited)	1.00 1.00 0.45	Very limited ~slope (very limited) ~depth to bedrock (limited) ~too clayey (moderately limited)	1.00 0.99 0.60
W: Water-----	Not rated		Not rated		Not rated		Not rated		Not rated	
Zo: Zook-----	Very limited ~wetness (very limited) ~flooding (very limited) ~shrink-swell (very limited)	1.00 1.00 1.00	Very limited ~flooding (very limited) ~wetness (very limited) ~shrink-swell (very limited)	1.00 1.00 1.00	Very limited ~flooding (very limited) ~wetness (very limited) ~shrink-swell (very limited)	1.00 1.00 1.00	Very limited ~low strength (very limited) ~wetness (very limited) ~flooding (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~flooding (very limited) ~too clayey (moderately limited)	1.00 1.00 0.60

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Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings		Local roads and streets		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Zs: Zook-----	Very limited ~wetness (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~low strength (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~flooding (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00	~flooding (very limited)	1.00
	~shrink-swell (very limited)	1.00	~shrink-swell (very limited)	1.00	~shrink-swell (very limited)	1.00	~flooding (very limited)	1.00	~too clayey (very limited)	1.00